

[54] **HIGH PERFORMANCE SINGLE MODE  
WAVEGUIDE**

[57]

**ABSTRACT**

Disclosed is a single mode optical waveguide fiber having a segmented core design. In particular, the core comprises three segments, each having characteristic dimensions and refractive index profile. By proper choice of index profile in each segment, a waveguide fiber is made which has a mode field diameter of about 9.5, low, positive total dispersion over the operating window 1530 nm to 1565 nm as well as effective area greater than 60  $\mu\text{m}^2$ .

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